CRF Err rs Corrected by the STIC Systems Branch

Serial Number: _10/069,626_

ENTERED

CRF Processing Dat : _11/6/2002_
Edited by: _____
Verified by: _____ (STIC staff)

☐ Changed a file from non-ASCII to ASCII

☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.

☐ Edited a format error in the Current Application Data section, specifically: _____

☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____ .

☐ Added the mandatory heading and subheadings for "Current Application Data".

☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____

☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____

☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____

☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

☐ Inserted colons after headings/subheadings. Headings edited included: _____

☐ Deleted extra, invalid, headings used by an applicant, specifically: _____

☑ Deleted: ☑ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as_____ .

☐ Inserted mandatory headings, specifically: _____

☐ Corrected an obvious error in the response, specifically: _____

☐ Edited identifiers where upper case is used but lower case is required, or vice versa.

☐ Corrected an error in the Number of Sequences field, specifically: _____

☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

☐ Other: _____
_____
_____
_____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

PCT10

RAW SEQUENCE LISTING   DATE: 11/06/2002
PATENT APPLICATION: US/10/069,626   TIME: 18:25:51

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\11062002\J069626.raw


```
  3 <110> APPLICANT: Green et al.
  5 <120> TITLE OF INVENTION: Polynucleotides Encoding Members of the Human B
  6       Lymphocyte Activation Antigen B-7 Family and
  7       Polypeptides Encoded Thereby
  9 <130> FILE REFERENCE: 15966-562 NATL
 11 <140> CURRENT APPLICATION NUMBER: 10/069,626
C--> 12 <141> CURRENT FILING DATE: 2002-07-25.
 14 <150> PRIOR APPLICATION NUMBER: PCT/US00/24220
 15 <151> PRIOR FILING DATE: 2000-08-31.
 17 <150> PRIOR APPLICATION NUMBER: 60/152383
 18 <151> PRIOR FILING DATE: 1999-09-03
 20 <150> PRIOR APPLICATION NUMBER: 60/172909
 21 <151> PRIOR FILING DATE: 1999-12-21
 23 <150> PRIOR APPLICATION NUMBER: 60/183578
 24 <151> PRIOR FILING DATE: 2000-02-18
 26 <150> PRIOR APPLICATION NUMBER: 09/651200
 27 <151> PRIOR FILING DATE: 2000-08-30
 29 <160> NUMBER OF SEQ ID NOS: 25
 31 <170> SOFTWARE: PatentIn Ver. 2.0
 33 <210> SEQ ID NO: 1
 34 <211> LENGTH: 2691
 35 <212> TYPE: DNA
 36 <213> ORGANISM: Homo sapiens
 38 <220> FEATURE:
 39 <221> NAME/KEY: CDS
 40 <222> LOCATION: (111)..(1130)
 42 <400> SEQUENCE: 1
 43 gcggccgcgt gaccatcacg tgctccagct accagggcta ccctgaggct gaggtgttct 60
 45 ggcaggatgg gcagggtgtg cccctgactg gcaacgtgac cacgtcgcag atg gcc    116
 46                                                           Met Ala
 47                                                           1
 49 aac gag cag ggc ttg ttt gat gtg cac agc atc ctg cgg gtg gtg ctg  164
 50 Asn Glu Gln Gly Leu Phe Asp Val His Ser Ile Leu Arg Val Val Leu
 51              5                  10                  15
 53 ggt gca aat ggc acc tac agc tgc ctg gtg cgc aac ccc gtg ctg cag  212
 54 Gly Ala Asn Gly Thr Tyr Ser Cys Leu Val Arg Asn Pro Val Leu Gln
 55      20                  25                  30
 57 cag gat gcg cac agc tct gtc acc atc aca ccc cag aga agc ccc aca  260
 58 Gln Asp Ala His Ser Ser Val Thr Ile Thr Pro Gln Arg Ser Pro Thr
 59 35                  40                  45                  50
 61 gga gcc gtg gag gtc cag gtc cct gag gac ccg gtg gtg gcc cta gtg  308
 62 Gly Ala Val Glu Val Gln Val Pro Glu Asp Pro Val Val Ala Leu Val
 63                  55                  60                  65
```

RAW SEQUENCE LISTING   DATE: 11/06/2002
PATENT APPLICATION: US/10/069,626   TIME: 18:25:51

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\11062002\J069626.raw

```
65  ggc acc gat gcc acc ctg cac tgc tcc ttc tcc ccc gag cct ggc ttc   356
66  Gly Thr Asp Ala Thr Leu His Cys Ser Phe Ser Pro Glu Pro Gly Phe
67          70              75              80
69  agc ctg aca cag ctc aac ctc atc tgg cag ctg aca gac acc aaa cag   404
70  Ser Leu Thr Gln Leu Asn Leu Ile Trp Gln Leu Thr Asp Thr Lys Gln
71          85              90              95
73  ctg gtg cac agt ttc acc gaa ggc cgg gac cag ggc agc gcc tat gcc   452
74  Leu Val His Ser Phe Thr Glu Gly Arg Asp Gln Gly Ser Ala Tyr Ala
75      100             105             110
77  aac cgc acg gcc ctc ttc ccg gac ctg ctg gca caa ggc aat gca tcc   500
78  Asn Arg Thr Ala Leu Phe Pro Asp Leu Leu Ala Gln Gly Asn Ala Ser
79  115             120             125             130
81  ctg agg ctg cag cgc gtg cgt gtg gcg gac gag ggc agc ttc acc tgc   548
82  Leu Arg Leu Gln Arg Val Arg Val Ala Asp Glu Gly Ser Phe Thr Cys
83          135             140             145
85  ttc gtg agc atc cgg gat ttc ggc agc gct gcc gtc agc ctg cag gtg   596
86  Phe Val Ser Ile Arg Asp Phe Gly Ser Ala Ala Val Ser Leu Gln Val
87          150             155             160
89  gcc gct ccc tac tcg aag ccc agc atg acc ctg gag ccc aac aag gac   644
90  Ala Ala Pro Tyr Ser Lys Pro Ser Met Thr Leu Glu Pro Asn Lys Asp
91      165             170             175
93  ctg cgg cca ggg gac acg gtg acc atc acg tgc tcc agc tac cgg ggc   692
94  Leu Arg Pro Gly Asp Thr Val Thr Ile Thr Cys Ser Ser Tyr Arg Gly
95      180             185             190
97  tac cct gag gct gag gtg ttc tgg cag gat ggg cag ggt gtg ccc ctg   740
98  Tyr Pro Glu Ala Glu Val Phe Trp Gln Asp Gly Gln Gly Val Pro Leu
99  195             200             205             210
101 act ggc aac gtg acc acg tcg cag atg gcc aac gag cag ggc ttg ttt   788
102 Thr Gly Asn Val Thr Thr Ser Gln Met Ala Asn Glu Gln Gly Leu Phe
103             215             220             225
105 gat gtg cac agc gtc ctg cgg gtg gtg ctg ggt gcg aat ggc acc tac   836
106 Asp Val His Ser Val Leu Arg Val Val Leu Gly Ala Asn Gly Thr Tyr
107             230             235             240
109 agc tgc ctg gtg cgc aac ccc gtg ctg cag cag gat gcg cac ggc tct   884
110 Ser Cys Leu Val Arg Asn Pro Val Leu Gln Gln Asp Ala His Gly Ser
111         245             250             255
113 gtc acc atc aca ggg cag cct atg aca ttc ccc cca gag gcc ctg tgg   932
114 Val Thr Ile Thr Gly Gln Pro Met Thr Phe Pro Pro Glu Ala Leu Trp
115     260             265             270
117 gtg acc gtg ggg ctc tct gtc tgt ctc att gca ctg ctg gtg gcc ctg   980
118 Val Thr Val Gly Leu Ser Val Cys Leu Ile Ala Leu Leu Val Ala Leu
119 275             280             285             290
121 gct ttc gtg tgc tgg aga aag atc aaa cag agc tgt gag gag gag aat  1028
122 Ala Phe Val Cys Trp Arg Lys Ile Lys Gln Ser Cys Glu Glu Glu Asn
123             295             300             305
125 gca gga gcc gag gac cag gat ggg gag gga gaa ggc tcc aag aca gcc  1076
126 Ala Gly Ala Glu Asp Gln Asp Gly Glu Gly Glu Gly Ser Lys Thr Ala
127             310             315             320
129 ctg cag cct ctg aaa cac tct gac agc aaa gaa gat gat gga caa gaa  1124
```

```
130 Leu Gln Pro Leu Lys His Ser Asp Ser Lys Glu Asp Asp Gly Gln Glu
131         325             330             335
133 ata gcc tgaccatgag gaccagggag ctgctacccc tccctacagc tcctaccctc    1180
134 Ile Ala
135     340
137 tggctgcaat ggggctgcac tgtgagccct gcccccaaca gatgcatcct gctctgacag 1240
139 gtgggctcct tctccaaagg atgcgataca cagaccactg tgcagcctta tttctccaat 1300
141 ggacatgatt cccaagtcat cctgctgcct tttttcttat agacacaatg aacagaccac 1360
143 ccacaacctt agttctctaa gtcatcctgc ctgctgcctt atttcacagt acatacattt 1420
145 cttagggaca cagtacactg accacatcac caccctcttc ttccagtgct gcgtggacca 1480
147 tctggctgcc ttttttctcc aaaagatgca atattcagac tgactgaccc cctgccttat 1540
149 ttcaccaaag acacgatgca tagtcacccc ggccttgttt ctccaatggc cgtgatacac 1600
151 tagtgatcat gttcagccct gcttccacct gcatagaatc tttttcttctc agacagggac 1660
153 agtgcggcct caacatctcc tggagtctag aagctgtttc ctttcccctc cttcctcctc 1720
155 ttgctctagc cttaatactg gccttttccc tccctgcccc aagtgaagac agggcactct 1780
157 gcgcccacca catgcacagc tgtgcatgga gacctgcagg tgcacgtgct ggaacacgtg 1840
159 tggttccccc ctggcccagc ctcctctgca gtgcccctct cccctgccca tcctccccac 1900
161 ggaagcatgt gctggtcaca ctggttctcc aggggtctgt gatggggccc ctggggggtca 1960
163 gcttctgtcc ctctgccttc tcacctcttt gttcctttct tttcatgtat ccattcagtt 2020
165 gatgtttatt gagcaactac agatgtcagc actgtgttag gtgctggggg ccctgcgtgg 2080
167 gaagataaag ttcctccctc aaggactccc catccagctg ggagacagac aactaactac 2140
169 actgcaccct gcggtttgca gggggctcct gcctggctcc ctgctccaca cctcctctgt 2200
171 ggctcaaggc ttcctggata cctcacccccc atcccaccca taattcttac ccagagcatg 2260
173 gggttggggc ggaaacctgg agagagggac atagccctc gccacggcta gagaatctgg 2320
175 tggtgtccaa aatgtctgtc caggtgtggg caggtgggca ggcaccaagg ccctctggac 2380
177 ctttcatagc agcagaaaag gcagagcctg gggcagggca gggccaggaa tgctttgggg 2440
179 acaccgaggg gactgccccc cacccccacc atggtgctat tctggggctg gggcagtctt 2500
181 ttcctggctt gcctctggcc agctcccggc ctctggtaga gtgagacttc agacgttctg 2560
183 atgccttccg gatgtcatct ctccctgccc caggaatgga agatgtgagg acttctaatt 2620
185 taaatgtggg actcggaggg attttgtaaa ctgggggtat attttgggga aaataaatgt 2680
187 ctttgtaaaa a                                                       2691
190 <210> SEQ ID NO: 2
191 <211> LENGTH: 340
192 <212> TYPE: PRT
193 <213> ORGANISM: Homo sapiens
195 <400> SEQUENCE: 2
196 Met Ala Asn Glu Gln Gly Leu Phe Asp Val His Ser Ile Leu Arg Val
197 1               5               10              15
199 Val Leu Gly Ala Asn Gly Thr Tyr Ser Cys Leu Val Arg Asn Pro Val
200             20              25              30
202 Leu Gln Gln Asp Ala His Ser Ser Val Thr Ile Thr Pro Gln Arg Ser
203         35              40              45
205 Pro Thr Gly Ala Val Glu Val Gln Val Pro Glu Asp Pro Val Val Ala
206     50              55              60
208 Leu Val Gly Thr Asp Ala Thr Leu His Cys Ser Phe Ser Pro Glu Pro
209 65              70              75              80
211 Gly Phe Ser Leu Thr Gln Leu Asn Leu Ile Trp Gln Leu Thr Asp Thr
212             85              90              95
214 Lys Gln Leu Val His Ser Phe Thr Glu Gly Arg Asp Gln Gly Ser Ala
```

RAW SEQUENCE LISTING   DATE: 11/06/2002
PATENT APPLICATION: US/10/069,626   TIME: 18:25:51

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\11062002\J069626.raw

```
215              100              105              110
217 Tyr Ala Asn Arg Thr Ala Leu Phe Pro Asp Leu Leu Ala Gln Gly Asn
218         115              120              125
220 Ala Ser Leu Arg Leu Gln Arg Val Arg Val Ala Asp Glu Gly Ser Phe
221     130              135              140
223 Thr Cys Phe Val Ser Ile Arg Asp Phe Gly Ser Ala Ala Val Ser Leu
224 145              150              155              160
226 Gln Val Ala Ala Pro Tyr Ser Lys Pro Ser Met Thr Leu Glu Pro Asn
227              165              170              175
229 Lys Asp Leu Arg Pro Gly Asp Thr Val Thr Ile Thr Cys Ser Ser Tyr
230         180              185              190
232 Arg Gly Tyr Pro Glu Ala Glu Val Phe Trp Gln Asp Gly Gln Gly Val
233         195              200              205
235 Pro Leu Thr Gly Asn Val Thr Thr Ser Gln Met Ala Asn Glu Gln Gly
236     210              215              220
238 Leu Phe Asp Val His Ser Val Leu Arg Val Val Leu Gly Ala Asn Gly
239 225              230              235              240
241 Thr Tyr Ser Cys Leu Val Arg Asn Pro Val Leu Gln Gln Asp Ala His
242              245              250              255
244 Gly Ser Val Thr Ile Thr Gly Gln Pro Met Thr Phe Pro Pro Glu Ala
245         260              265              270
247 Leu Trp Val Thr Val Gly Leu Ser Val Cys Leu Ile Ala Leu Leu Val
248         275              280              285
250 Ala Leu Ala Phe Val Cys Trp Arg Lys Ile Lys Gln Ser Cys Glu Glu
251     290              295              300
253 Glu Asn Ala Gly Ala Glu Asp Gln Asp Gly Glu Gly Glu Gly Ser Lys
254 305              310              315              320
256 Thr Ala Leu Gln Pro Leu Lys His Ser Asp Ser Lys Glu Asp Asp Gly
257              325              330              335
259 Gln Glu Ile Ala
260              340
263 <210> SEQ ID NO: 3
264 <211> LENGTH: 2885
265 <212> TYPE: DNA
266 <213> ORGANISM: Homo sapiens
268 <220> FEATURE:
269 <221> NAME/KEY: CDS
270 <222> LOCATION: (2)..(1324)
272 <400> SEQUENCE: 3
273 c cct ctt ccc gga cct gct ggc aca ggg caa cgc atc cct gag gct gca  49
274   Pro Leu Pro Gly Pro Ala Gly Thr Gly Gln Arg Ile Pro Glu Ala Ala
275     1            5               10               15
277 gcg cgt gcg tgt agc gga cga ggg cag ctt cac ctg ctt cgt gag cat  97
278 Ala Arg Ala Cys Ser Gly Arg Gly Gln Leu His Leu Leu Arg Glu His
279             20                   25                   30
281 ccg gga ttt cgg cag cgc tgc cgt cag cct gca ggt ggc cgc tcc cta 145
282 Pro Gly Phe Arg Gln Arg Cys Arg Gln Pro Ala Gly Gly Arg Ser Leu
283         35               40               45
285 ctc gaa gcc cag cat gac cct gga gcc caa caa gga cct gcg gcc agg 193
```

```
286 Leu Glu Ala Gln His Asp Pro Gly Ala Gln Gln Gly Pro Ala Ala Arg
287     50                      55                  60
289 gga cac ggt gtg acc atc acg tgc tcc agc tac cag ggc tac cct gag   241
290 Gly His Gly Val Thr Ile Thr Cys Ser Ser Tyr Gln Gly Tyr Pro Glu
291  65                      70                  75                  80
293 gct gag gtg ttc tgg cag gat ggg cag ggt gtg ccc ctg act ggc aac : 289
294 Ala Glu Val Phe Trp Gln Asp Gly Gln Gly Val Pro Leu Thr Gly Asn
295                      85                  90                  95
297 gtg acc acg tcg cag atg gcc aac gag cag ggc ttg ttt gat gtg cac   337
298 Val Thr Thr Ser Gln Met Ala Asn Glu Gln Gly Leu Phe Asp Val His
299                 100                 105                 110
301 agc atc ctg cgg gtg gtg ctg ggt gca aat ggc acc tac agc tgc ctg   385
302 Ser Ile Leu Arg Val Val Leu Gly Ala Asn Gly Thr Tyr Ser Cys Leu
303             115                 120                 125
305 gtg cgc aac ccc gtg ctg cag cag gat gcg cac agc tct gtc acc atc   433
306 Val Arg Asn Pro Val Leu Gln Gln Asp Ala His Ser Ser Val Thr Ile
307         130                 135                 140
309 aca ccc cag aga agc ccc aca gga gcc gtg gag gtc cag gtc cct gag   481
310 Thr Pro Gln Arg Ser Pro Thr Gly Ala Val Glu Val Gln Val Pro Glu
311 145                 150                 155                 160
313 gac ccg gtg gtg gcc cta gtg ggc acc gat gcc acc ctg cac tgc tcc   529
314 Asp Pro Val Val Ala Leu Val Gly Thr Asp Ala Thr Leu His Cys Ser
315                 165                 170                 175
317 ttc tcc ccc gag cct ggc ttc agc ctg aca cag ctc aac ctc atc tgg   577
318 Phe Ser Pro Glu Pro Gly Phe Ser Leu Thr Gln Leu Asn Leu Ile Trp
319             180                 185                 190
321 cag ctg aca gac acc aaa cag ctg gtg cac agt ttc acc gaa ggc cgg   625
322 Gln Leu Thr Asp Thr Lys Gln Leu Val His Ser Phe Thr Glu Gly Arg
323             195                 200                 205
325 gac cag ggc agc gcc tat gcc aac cgc acg gcc ctc ttc ccg gac ctg   673
326 Asp Gln Gly Ser Ala Tyr Ala Asn Arg Thr Ala Leu Phe Pro Asp Leu
327         210                 215                 220
329 ctg gca caa ggc aat gca tcc ctg agg ctg cag cgc gtg cgt gtg gcg   721
330 Leu Ala Gln Gly Asn Ala Ser Leu Arg Leu Gln Arg Val Arg Val Ala
331 225                 230                 235                 240
333 gac gag ggc agc ttc acc tgc ttc gtg agc atc cgg gat ttc ggc agc   769
334 Asp Glu Gly Ser Phe Thr Cys Phe Val Ser Ile Arg Asp Phe Gly Ser
335                 245                 250                 255
337 gct gcc gtc agc ctg cag gtg gcc gct ccc tac tcg aag ccc agc atg   817
338 Ala Ala Val Ser Leu Gln Val Ala Ala Pro Tyr Ser Lys Pro Ser Met
339             260                 265                 270
341 acc ctg gag ccc aac aag gac ctg cgg cca ggg gac acg gtg acc atc   865
342 Thr Leu Glu Pro Asn Lys Asp Leu Arg Pro Gly Asp Thr Val Thr Ile
343         275                 280                 285
345 acg tgc tcc agc tac cgg ggc tac cct gag gct gag gtg ttc tgg cag   913
346 Thr Cys Ser Ser Tyr Arg Gly Tyr Pro Glu Ala Glu Val Phe Trp Gln
347     290                 295                 300
349 gat ggg cag ggt gtg ccc ctg act ggc aac gtg acc acg tcg cag atg   961
350 Asp Gly Gln Gly Val Pro Leu Thr Gly Asn Val Thr Thr Ser Gln Met
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 11/06/2002
PATENT APPLICATION: US/10/069,626   TIME: 18:25:52

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\11062002\J069626.raw

Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes spaces.

```
Seq#:1; Line(s) 1,2,3,4,5,6,7,8,9,10,12,14,15,16,17,18,19,20,21,22,23,24,25
Seq#:1; Line(s) 26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45
Seq#:1; Line(s) 46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65
Seq#:1; Line(s) 66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85
Seq#:1; Line(s) 86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101,102,103
Seq#:1; Line(s) 104,105,106,107,108,109,110,111,112,113,114,115,116,117,118
Seq#:1; Line(s) 119,120,121,122,123,124,125,126,127,128,129,130,131,132,133
Seq#:1; Line(s) 134,135,136,137,138,139,140,141,142,143,144,145,146,147,148
Seq#:1; Line(s) 149,150,151,152,153,154,155,156,157,158,159,160,161,162,163
Seq#:1; Line(s) 164,165,166,167,168,169,170,171,172,173,174,175,176,177,178
Seq#:1; Line(s) 179,180,181,182,183,184,185,186,187,188,189,190
Seq#:2; Line(s) 191,192,193,194,195,196,197,198,199,200,201,202,203,204,205
Seq#:2; Line(s) 206,207,208,209,210,211,212,213,214,215,216,217,218,219,220
Seq#:2; Line(s) 221,222,223,224,225,226,227,228,229,230,231,232,233,234,235
Seq#:2; Line(s) 236,237,238,239,240,241,242,243,244,245,246,247,248,249,250
Seq#:2; Line(s) 251,252,253,254,255,256,257,258,259,260,261,262,263
Seq#:3; Line(s) 264,265,266,267,268,269,270,271,272,273,274,275,276,277,278
Seq#:3; Line(s) 279,280,281,282,283,284,285,286,287,288,289,290,291,292,293
Seq#:3; Line(s) 294,295,296,297,298,299,300,301,302,303,304,305,306,307,308
Seq#:3; Line(s) 309,310,311,312,313,314,315,316,317,318,319,320,321,322,323
Seq#:3; Line(s) 324,325,326,327,328,329,330,331,332,333,334,335,336,337,338
Seq#:3; Line(s) 339,340,341,342,343,344,345,346,347,348,349,350,351,352,353
Seq#:3; Line(s) 354,355,356,357,358,359,360,361,362,363,364,365,366,367,368
Seq#:3; Line(s) 369,370,371,372,373,374,375,376,377,378,379,380,381,382,383
Seq#:3; Line(s) 384,385,386,387,388,389,390,391,392,393,394,395,396,397,398
Seq#:3; Line(s) 399,400,401,402,403,404,405,406,407,408,409,410,411,412,413
Seq#:3; Line(s) 414,415,416,417,418,419,420,421,422,423,424,425,426,427,428
Seq#:3; Line(s) 429,430,431,432,433,434,435,436,437,438
Seq#:4; Line(s) 439,440,441,442,443,444,445,446,447,448,449,450,451,452,453
Seq#:4; Line(s) 454,455,456,457,458,459,460,461,462,463,464,465,466,467,468
Seq#:4; Line(s) 469,470,471,472,473,474,475,476,477,478,479,480,481,482,483
Seq#:4; Line(s) 484,485,486,487,488,489,490,491,492,493,494,495,496,497,498
Seq#:4; Line(s) 499,500,501,502,503,504,505,506,507,508,509,510,511,512,513
Seq#:4; Line(s) 514,515,516,517,518,519,520,521,522,523,524,525,526,527,528
Seq#:4; Line(s) 529
Seq#:5; Line(s) 530,531,532,533,534,535,536,537,538,539,540,541,542,543,544
Seq#:5; Line(s) 545,546,547,548,549,550,551,552,553,554,555,556,557,558,559
Seq#:5; Line(s) 560,561,562,563,564,565,566,567,568,569,570,571,572,573,574
Seq#:5; Line(s) 575,576,577,578,579,580,581,582,583,584,585,586,587,588,589
Seq#:5; Line(s) 590,591,592,593,594,595,596,597,598,599,600,601,602,603,604
Seq#:5; Line(s) 605,606,607,608,609,610,611,612,613,614,615,616,617,618,619
Seq#:5; Line(s) 620,621,622,623,624,625,626,627,628,629,630,631,632,633,634
Seq#:5; Line(s) 635,636,637,638,639,640,641,642,643,644,645,646,647,648,649
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 11/06/2002
PATENT APPLICATION: US/10/069,626   TIME: 18:25:52

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\11062002\J069626.raw

```
Seq#:5;  Line(s) 650,651,652,653,654,655,656,657,658,659,660,661,662,663,664
Seq#:5;  Line(s) 665,666,667,668,669,670,671,672,673,674,675,676,677,678,679
Seq#:5;  Line(s) 680,681,682,683,684,685,686,687,688,689,690,691,692,693,694
Seq#:5;  Line(s) 695,696
Seq#:6;  Line(s) 697,698,699,700,701,702,703,704,705,706,707,708,709,710,711
Seq#:6;  Line(s) 712,713,714,715,716,717,718,719,720,721,722,723,724,725,726
Seq#:6;  Line(s) 727,728,729,730,731,732,733,734,735,736,737,738,739,740,741
Seq#:6;  Line(s) 742,743,744,745,746,747,748,749,750,751,752,753,754,755,756
Seq#:6;  Line(s) 757,758,759,760,761,762,763,764,765,766,767,768,769,770,771
Seq#:6;  Line(s) 772,773,774,775,776,777,778,779,780,781,782,783,784,785,786
Seq#:6;  Line(s) 787,788,789,790,791,792,793,794,795,796,797,798,799,800,801
Seq#:6;  Line(s) 802,803,804,805
Seq#:7;  Line(s) 806,807,808,809,810,811,812,813,814,815,816,817,818,819,820
Seq#:7;  Line(s) 821,822,823,824,825,826,827,828,829,830,831,832,833,834,835
Seq#:7;  Line(s) 836,837,838,839,840,841,842,843,844,845,846
Seq#:8;  Line(s) 847,848,849,850,851,852,853,854,855,856,857,858,859,860,861
Seq#:8;  Line(s) 862,863,864,865,866,867,868,869,870,871,872,873,874,875,876
Seq#:8;  Line(s) 877,878,879,880,881,882,883,884,885,886,887,888,889,890,891
Seq#:8;  Line(s) 892,893,894,895,896,897,898,899,900,901,902,903,904,905,906
Seq#:8;  Line(s) 907
Seq#:9;  Line(s) 908,909,910,911,912,913,914,915,916,917,918,919,920,921,922
Seq#:9;  Line(s) 923,924,925,926,927,928,929,930,931,932,933,934,935,936,937
Seq#:9;  Line(s) 938,939,940,941,942,943,944,945,946,947,948,949,950,951,952
Seq#:9;  Line(s) 953,954,955,956,957,958,959,960
Seq#:10; Line(s) 961,962,963,964,965,966,967,968,969,970,971,972,973,974
Seq#:10; Line(s) 975,976,977,978,979,980,981,982,983,984,985,986,987,988
Seq#:10; Line(s) 989,990,991,992,993,994,995,996,997,998,999,1000,1001,1002
Seq#:10; Line(s) 1003,1004,1005,1006,1007,1008,1009,1010,1011,1012,1013
Seq#:10; Line(s) 1014,1015,1016,1017,1018,1019,1020,1021
Seq#:11; Line(s) 1022,1023,1024,1025,1026,1027,1028,1029,1030,1031,1032
Seq#:11; Line(s) 1033,1034,1035,1036,1037,1038,1039,1040,1041,1042,1043
Seq#:11; Line(s) 1044,1045,1046,1047,1048,1049,1050,1051,1052,1053,1054
Seq#:11; Line(s) 1055,1056,1057,1058,1059,1060,1061,1062,1063,1064,1065
Seq#:11; Line(s) 1066,1067,1068,1069,1070,1071,1072,1073,1074,1075,1076
Seq#:11; Line(s) 1077,1078,1079,1080,1081,1082
Seq#:12; Line(s) 1083,1084,1085,1086,1087,1088,1089,1090,1091,1092,1093
Seq#:12; Line(s) 1094,1095,1096,1097,1098,1099,1100,1101,1102,1103,1104
Seq#:12; Line(s) 1105,1106,1107,1108,1109
Seq#:13; Line(s) 1110,1111,1112,1113,1114,1115,1116,1117,1118,1119,1120
Seq#:13; Line(s) 1121,1122,1123,1124,1125,1126,1127,1128,1129,1130,1131
Seq#:13; Line(s) 1132,1133,1134,1135,1136,1137,1138,1139,1140,1141,1142
Seq#:13; Line(s) 1143,1144,1145,1146,1147,1148,1149,1150,1151,1152,1153
Seq#:13; Line(s) 1154,1155,1156,1157,1158,1159,1160,1161,1162,1163,1164
Seq#:13; Line(s) 1165,1166,1167,1168,1169,1170,1171,1172,1173
Seq#:14; Line(s) 1174,1175,1176,1177,1178,1179,1180,1181,1182,1183,1184
Seq#:14; Line(s) 1185,1186,1187,1188,1189,1190,1191,1192,1193,1194,1195
Seq#:14; Line(s) 1196,1197,1198,1199,1200,1201,1202,1203,1204,1205,1206
Seq#:14; Line(s) 1207,1208,1209,1210,1211,1212,1213,1214,1215,1216,1217
Seq#:14; Line(s) 1218,1219,1220,1221,1222,1223,1224,1225,1226,1227,1228
```

```
              RAW SEQUENCE LISTING ERROR SUMMARY    DATE: 11/06/2002
              PATENT APPLICATION:  US/10/069,626    TIME: 18:25:52

              Input Set : A:\PTO.AMC.txt
              Output Set: N:\CRF4\11062002\J069626.raw

Seq#:14; Line(s) 1229,1230,1231,1232,1233,1234,1235,1236,1237
Seq#:15; Line(s) 1238,1239,1240,1241,1242,1243,1244,1245,1246,1247,1248
Seq#:15; Line(s) 1249,1250,1251,1252,1253,1254,1255,1256,1257,1258,1259
Seq#:15; Line(s) 1260,1261,1262,1263,1264,1265,1266,1267,1268,1269,1270
Seq#:15; Line(s) 1271,1272,1273,1274,1275,1276,1277,1278,1279,1280,1281
Seq#:15; Line(s) 1282,1283,1284,1285,1286,1287,1288,1289,1290,1291,1292
Seq#:15; Line(s) 1293,1294,1295,1296,1297,1298,1299,1300,1301
Seq#:16; Line(s) 1302,1303,1304,1305,1306,1307,1308,1309,1310,1311,1312
Seq#:16; Line(s) 1313,1314,1315,1316,1317,1318,1319,1320,1321,1322,1323
Seq#:16; Line(s) 1324,1325,1326,1327,1328,1329,1330,1331,1332,1333,1334
Seq#:16; Line(s) 1335,1336,1337,1338,1339,1340,1341,1342,1343,1344,1345
Seq#:16; Line(s) 1346,1347,1348,1349,1350,1351,1352,1353,1354,1355,1356
Seq#:16; Line(s) 1357,1358,1359,1360,1361,1362,1363,1364,1365
Seq#:17; Line(s) 1366,1367,1368,1369,1370,1371,1372,1373,1374,1375,1376
Seq#:17; Line(s) 1377,1378,1379,1380,1381,1382,1383,1384,1385,1386,1387
Seq#:17; Line(s) 1388,1389,1390,1391,1392,1393,1394,1395,1396,1397,1398
Seq#:17; Line(s) 1399,1400,1401,1402,1403,1404,1405,1406,1407,1408,1409
Seq#:17; Line(s) 1410,1411,1412,1413,1414,1415,1416,1417,1418,1419,1420
Seq#:17; Line(s) 1421,1422,1423,1424,1425,1426,1427,1428,1429,1430,1431
Seq#:17; Line(s) 1432
Seq#:18; Line(s) 1433,1434,1435,1436,1437,1438,1439,1440,1441,1442,1443
Seq#:18; Line(s) 1444,1445,1446,1447,1448,1449,1450,1451,1452,1453,1454
Seq#:18; Line(s) 1455,1456,1457,1458,1459,1460,1461,1462,1463,1464,1465
Seq#:18; Line(s) 1466,1467,1468,1469,1470,1471,1472,1473,1474,1475,1476
Seq#:18; Line(s) 1477,1478,1479,1480,1481,1482,1483,1484,1485,1486,1487
Seq#:18; Line(s) 1488,1489,1490,1491,1492,1493,1494,1495,1496,1497,1498
Seq#:18; Line(s) 1499,1500,1501,1502
Seq#:19; Line(s) 1503,1504,1505,1506,1507,1508,1509,1510,1511,1512,1513
Seq#:19; Line(s) 1514,1515,1516,1517,1518,1519,1520,1521,1522,1523,1524
Seq#:19; Line(s) 1525,1526,1527,1528,1529,1530,1531,1532,1533,1534,1535
Seq#:19; Line(s) 1536,1537,1538,1539,1540,1541,1542,1543,1544,1545,1546
Seq#:19; Line(s) 1547,1548,1549,1550,1551,1552,1553,1554,1555,1556,1557
Seq#:19; Line(s) 1558,1559,1560,1561,1562,1563,1564,1565,1566,1567,1568
Seq#:19; Line(s) 1569,1570,1571,1572
Seq#:20; Line(s) 1573,1574,1575,1576,1577,1578,1579,1580,1581,1582,1583
Seq#:20; Line(s) 1584,1585,1586,1587,1588,1589,1590,1591,1592,1593,1594
Seq#:20; Line(s) 1595,1596,1597,1598,1599,1600,1601,1602,1603,1604,1605
Seq#:20; Line(s) 1606,1607,1608,1609,1610,1611,1612,1613,1614,1615,1616
Seq#:20; Line(s) 1617,1618,1619,1620,1621,1622,1623,1624,1625,1626,1627
Seq#:20; Line(s) 1628,1629,1630,1631,1632,1633,1634,1635,1636,1637,1638
Seq#:20; Line(s) 1639,1640,1641,1642
Seq#:21; Line(s) 1643,1644,1645,1646,1647,1648,1649,1650,1651,1652,1653
Seq#:21; Line(s) 1654,1655,1656,1657,1658,1659,1660,1661,1662,1663,1664
Seq#:21; Line(s) 1665,1666,1667,1668,1669,1670,1671,1672,1673,1674,1675
Seq#:21; Line(s) 1676,1677,1678,1679,1680,1681,1682,1683,1684,1685,1686
Seq#:21; Line(s) 1687,1688,1689,1690,1691,1692,1693,1694,1695,1696,1697
Seq#:21; Line(s) 1698,1699,1700,1701,1702,1703,1704,1705,1706,1707,1708
Seq#:21; Line(s) 1709,1710,1711,1712
Seq#:22; Line(s) 1713,1714,1715,1716,1717,1718,1719,1720,1721,1722,1723
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 11/06/2002
PATENT APPLICATION: US/10/069,626   TIME: 18:25:52

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\11062002\J069626.raw

```
Seq#:22; Line(s) 1724,1725,1726,1727,1728,1729,1730,1731,1732,1733,1734
Seq#:22; Line(s) 1735,1736,1737,1738,1739,1740,1741,1742,1743,1744,1745
Seq#:22; Line(s) 1746,1747,1748,1749,1750,1751,1752,1753,1754,1755,1756
Seq#:22; Line(s) 1757,1758,1759,1760,1761,1762,1763,1764,1765,1766,1767
Seq#:22; Line(s) 1768,1769,1770,1771,1772,1773,1774,1775,1776,1777,1778
Seq#:22; Line(s) 1779
Seq#:23; Line(s) 1780,1781,1782,1783,1784,1785,1786,1787,1788,1789,1790
Seq#:23; Line(s) 1791,1792,1793,1794,1795,1796,1797,1798,1799,1800,1801
Seq#:23; Line(s) 1802,1803,1804,1805,1806,1807,1808,1809,1810,1811,1812
Seq#:23; Line(s) 1813,1814,1815,1816,1817,1818,1819,1820,1821,1822,1823
Seq#:23; Line(s) 1824,1825,1826,1827,1828,1829,1830,1831,1832,1833,1834
Seq#:23; Line(s) 1835,1836,1837,1838,1839,1840,1841,1842,1843
Seq#:24; Line(s) 1844,1845,1846,1847,1848,1849,1850,1851,1852,1853,1854
Seq#:24; Line(s) 1855,1856,1857,1858,1859,1860,1861,1862,1863,1864,1865
Seq#:24; Line(s) 1866,1867,1868,1869,1870,1871,1872,1873,1874,1875,1876
Seq#:24; Line(s) 1877,1878,1879,1880,1881,1882,1883,1884,1885,1886,1887
Seq#:24; Line(s) 1888,1889,1890,1891,1892,1893,1894,1895,1896,1897,1898
Seq#:24; Line(s) 1899,1900,1901,1902,1903,1904,1905,1906,1907,1908,1909
Seq#:24; Line(s) 1910,1911,1912,1913,1914,1915,1916,1917,1918,1919,1920
Seq#:24; Line(s) 1921,1922,1923,1924,1925,1926,1927,1928,1929,1930,1931
Seq#:24; Line(s) 1932,1933,1934,1935,1936,1937,1938,1939,1940,1941,1942
Seq#:24; Line(s) 1943,1944,1945,1946,1947,1948,1949,1950,1951,1952,1953
Seq#:24; Line(s) 1954,1955,1956
Seq#:25; Line(s) 1957,1958,1959,1960,1961,1962,1963,1964,1965,1966,1967
Seq#:25; Line(s) 1968,1969,1970,1971,1972,1973,1974,1975,1976,1977,1978
Seq#:25; Line(s) 1979,1980,1981,1982,1983,1984,1985,1986,1987,1988,1989
Seq#:25; Line(s) 1990,1991,1992,1993,1994,1995,1996,1997,1998,1999,2000
Seq#:25; Line(s) 2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011
Seq#:25; Line(s) 2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
Seq#:25; Line(s) 2023,2024,2025,2026,2027,2028,2029
```

VERIFICATION SUMMARY   DATE: 11/06/2002
PATENT APPLICATION: US/10/069,626   TIME: 18:25:52

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\11062002\J069626.raw

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date